Alkali-Carbonate Reactivity

A23.2-26A-14 ____

APPARATUS / SECTION 4

1. Crushing Equipment, small jaw crusher capable of crushing aggregate to pass 2.5 mm? ..... _____
2. Grinding Equipment, chatter box capable of grinding 30 g of aggregate to pass 160 µm? ..... _____

SAMPLE SELECTION &TEST SPECIMEN PREPARATION / SECTIONS 5 & 6

1. CAN/CSA – A23.2 – 1A followed to obtain field sample? ..... _____
2. ASTM C 702 followed to obtain representative test sample? ..... _____
3. Mass of test specimen meets requirements of Table 1? ..... _____

Table 1

Nominal maximum aggregate size, mm	Minimum mass of sample, kg
14 and less	2
20	3
28	4
40	5
56	10
80	18

4 Test specimens combined and crushed pass 2.5 mm sieve? ..... _____
5 Crushed test specimen reduced via splitter to 30 ± 5 g? ..... _____
6 Split test specimen entirely pulverized pass 160 µm sieve? ..... _____
7 No loss of material on #4, 6 and 7 above? ..... _____
8 Pass 150 µm specimen mixed and reduced to obtain suitable specimens for chemical analysis? ..... _____

COMMENTS

Alkali-Carbonate Reactivity

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TEST PROCEDURES / SECTION 8

1. State method chosen?..... _____
2. Method qualified per section 8.2?..... _____
3. Reference materials tested and meet requirements for accuracy in Table 2? .. _____

Table 2 Maximum Permissible Variation In Results

Standard Reference material (S.R.M.)	Component	Maximum difference between duplicates	Maximum difference the average of duplicates from the S.R.M. certificate values
N.I.S.T. 1D	CaO	0.6%	± 0.5%
	MgO	0.1%	± 0.1%
	Al_2O_3	0.1%	± 0.2%
N.I.S.T. 88B	CaO	0.7%	± 0.6%
	MgO	0.4%	± 0.5%
	Al_2O_3	0.1%	± 0.1%

4. Results report includes all pertinent data per section 9?..... _____

COMMENTS